	L #	Hits	Search Text	DBs
1	L1	7937	thread near10 (halt$3 stop$4 suspend$3 resum$3)	USPAT; US-PGPUB
2	L2	173	1 near30 event	USPAT; US-PGPUB
3	L3	32246	event near5 (handl$3 manag$3 monitor$3 detect$3)	USPAT; US-PGPUB
4	L4	248	1 and 3	USPAT; US-PGPUB
5	L5	174	4 not 2	USPAT; US-PGPUB
6	L6	220	thread near10 (activat$3 reactivat$3 resum$3) near20 (event occurrence complet$3 finish$3 occur interrupt)	USPAT; US-PGPUB
7	L7	148	6 not (2 4)	USPAT; US-PGPUB
8	L8	5593	thread near10 (halt$3 stop$4 suspend$3 resum$3)	EPO; JPO; DERWENT; IBM_TDB
9	L10	8311	event near5 (handl$3 manag$3 monitor$3 detect$3)	EPO; JPO; DERWENT; IBM_TDB
10	L9	50	8 near30 event	EPO; JPO; DERWENT; IBM_TDB
11	L11	5	8 and 10 not 9	EPO; JPO; DERWENT; IBM_TDB
12	L12	32	thread near10 (activat$3 reactivat$3 resum$3) near20 (event occurrence complet$3 finish$3 occur interrupt)	EPO; JPO; DERWENT; IBM_TDB

	Document ID	U	Title	Current OR
1	US 20020046230 A1	☐	METHOD FOR SCHEDULING THREAD EXECUTION ON A LIMITED NUMBER OF OPERATING SYSTEM THREADS	709/107
2	US 20020035616 A1	☒	System and method for data recording and playback	709/219
3	US 20020026605 A1	☒	System and method for real time monitoring and control of a computer machine environment and configuration profile	714/37
4	US 20020026505 A1	☒	System and method for real time monitoring and control of networked computers	709/221
5	US 20020026291 A1	☒	Method for measuring quantity of usage of CPU	702/186
6	US 20020008703 A1	☒	METHOD AND SYSTEM FOR SYNCHRONIZING SCRIPTED ANIMATIONS	345/473
7	US 20020002613 A1	☒	Method and apparatus for communicating among a network of servers	709/225
8	US 20020002609 A1	☒	Telecommunications operating system	709/223
9	US 20010055372 A1	☒	System and method for integrating call record information	379/88.22
10	US 20010054450 A1	☒	Terry loom with pile warp length compensation and deflection into back shed	139/37
11	US 20010049717 A1	☒	Method and apparatus for communicating among a network of servers	709/203
12	US 20010043685 A1	☒	System and method for data recording	379/88.22
13	US 20010040942 A1	☒	System and method for recording and storing telephone call information	379/88.22
14	US 20010039974 A1	☒	Terry loom with interpenetrating ground warp and pile warp	139/25
15	US 20010034751 A1	☒	Real-time OS simulator	709/100
16	US 20010034728 A1	☒	Method and apparatus for automatically synchronizing data to electronic devices across a communications network	707/1
17	US 20010017166 A1	☒	Arrangement for a textile machine, for example a weaving machine	139/194
18	US 20010011589 A1	☒	TUBULAR FILLING SYSTEM	166/90.1
19	US 6370442 B1	☒	Automated embroidery stitching	700/138
20	US 6369821 B2	☒	Method and system for synchronizing scripted animations	345/473
21	US 6367511 B2	☒	Terry loom with interpenetrating ground warp and pile warp	139/25
22	US 6366656 B1	☒	Method and apparatus for migrating embedded PBX system to personal computer	379/198
23	US 6357016 B1	☒	Method and apparatus for disabling a clock signal within a multithreaded processor	713/601

	Document ID	U	Title	Current OR
24	US 6317761 B1	☒	Technique for implementing browser-initiated user-transparent advertising and for interstitially displaying an advertisement, so distributed, through a web browser in response to a user click-stream	707/513
25	US 6314451 B1	☒	Ad controller for use in implementing user-transparent network-distributed advertising and for interstitially displaying an advertisement so distributed	709/203
26	US 6308319 B1	☒	Thread suspension system and method using trapping instructions in delay slots	717/141
27	US 6298370 B1	☒	Computer operating process allocating tasks between first and second processors at run time based upon current processor load	709/102
28	US 6295602 B1	☒	Event-driven serialization of access to shared resources	713/1
29	US 6292820 B1	☒	Porting POSIX-conforming operating systems to Win32 API-conforming operating systems	709/100
30	US 6282202 B1	☒	Method for internal communication in a telecommunications system	370/410
31	US 6276174 B1	☒	Method and warp knitting machine for the production of knitted fabric having a freely selectable pattern repeat	66/84A
32	US 6275749 B1	☒	Interrupt-controlled thread processing	700/292
33	US 6269391 B1	☒	Multi-processor scheduling kernel	709/100
34	US 6260077 B1	☒	Method, apparatus and program product for interfacing a multi-threaded, client-based API to a single-threaded, server-based API	709/328
35	US 6252947 B1	☒	System and method for data recording and playback	379/88.22
36	US 6252946 B1	☒	System and method for integrating call record information	379/88.22
37	US 6249570 B1	☒	System and method for recording and storing telephone call information	379/88.22
38	US 6246752 B1	☒	System and method for data recording	379/88.22
39	US 6237024 B1	☒	Method and apparatus for the suspension and continuation of remote processes	709/203
40	US 6233599 B1	☒	Apparatus and method for retrofitting multi-threaded operations on a computer by partitioning and overlapping registers	709/102
41	US 6223208 B1	☒	Moving data in and out of processor units using idle register/storage functional units	709/108
42	US 6185609 B1	☒	Method, apparatus and program to provide client access to a management information service residing on a server in a computer network system	709/219
43	US 6182246 B1	☒	Protocol acknowledgment between homogeneous system	714/38
44	US 6179489 B1	☒	Devices, methods, systems and software products for coordination of computer main microprocessor and second microprocessor coupled thereto	709/102
45	US 6145061 A	☒	Method of management of a circular queue for asynchronous access	711/154
46	US 6128640 A	☒	Method and apparatus for user-level support for multiple event synchronization	709/102

	Document ID	U	Title	Current OR
47	US 6105119 A	☒	Data transfer circuitry, DSP wrapper circuitry and improved processor devices, methods and systems	711/219
48	US 6101524 A	☒	Deterministic replay of multithreaded applications	709/102
49	US 6081620 A	☒	System and method for pattern recognition	382/194
50	US 6077304 A	☒	Verification system for simulator	703/14
51	US 6049867 A	☒	Method and system for multi-thread switching only when a cache miss occurs at a second or higher level	712/228
52	US 6035321 A	☒	Method for enforcing a hierarchical invocation structure in real time asynchronous software applications	709/103
53	US 6021220 A	☒	System and method for pattern recognition	382/194
54	US 6018745 A	☒	Coupled file access	707/200
55	US 6016850 A	☒	Controlled warp tensioning during fabric weaving	139/97
56	US 6014681 A	☒	Method for saving a document using a background save thread	707/530
57	US 6006247 A	☒	Method and system for scheduling threads and handling exceptions within a multiprocessor data processing system	709/102
58	US 6003129 A	☒	System and method for handling interrupt and exception events in an asymmetric multiprocessor architecture	712/244
59	US 6003066 A	☒	System for distributing a plurality of threads associated with a process initiating by one data processing station among data processing stations	709/201
60	US 5978838 A	☒	Coordination and synchronization of an asymmetric, single-chip, dual multiprocessor	709/208
61	US 5975322 A	☒	Wine bottle closure with threads	215/273
62	US 5961584 A	☒	System for managing internal execution threads	709/103
63	US 5951653 A	☒	Method and system for coordinating access to objects of different thread types in a shared memory space	709/315
64	US 5931242 A	☒	Jarring tool enhancer	175/296
65	US 5909559 A	☒	Bus bridge device including data bus of first width for a first processor, memory controller, arbiter circuit and second processor having a different second data width	710/307
66	US 5905883 A	☒	Verification system for circuit simulator	703/17
67	US 5852731 A	☒	Computer program product for synchronizing static variable initialization and reference under a multi-threaded computer environment	709/100
68	US 5842661 A	☒	Arrangement for setting thread tension	242/419.1
69	US 5842016 A	☒	Thread synchronization in a garbage-collected system using execution barriers	709/106
70	US 5828881 A	☒	System and method for stack-based processing of multiple real-time audio tasks	709/314

	Documen t ID	U	Title	Current OR
71	US 5822520 A	☒	Method and apparatus for building network test packets	709/230
72	US 5790779 A	☒	Method and system for consolidating related error reports in a computer system	714/39
73	US 5778230 A	☒	Goal directed object-oriented debugging system	717/131
74	US 5771382 A	☒	System and method for synchronizing static variable initialization and reference under a multi-threaded computer environment	709/100
75	US 5761492 A	☒	Method and apparatus for uniform and efficient handling of multiple precise events in a processor by including event commands in the instruction set	712/244
76	US 5724272 A	☒	Method and apparatus for controlling an instrumentation system	702/123
77	US 5717614 A	☒	System and method for handling events in an instrumentation system	702/119
78	US 5706515 A	☒	System and method for implementing an atomic wait for notification operation	709/106
79	US 5706514 A	☒	Distributed execution of mode mismatched commands in multiprocessor computer systems	709/104
80	US 5662233 A	☒	Wine bottle closure	215/273
81	US 5632032 A	☒	Cross address space thread control in a multithreaded environment	709/100
82	US 5630128 A	☒	Controlled scheduling of program threads in a multitasking operating system	709/103
83	US 5625821 A	☒	Asynchronous or synchronous operation of event signaller by event management services in a computer system	709/100
84	US 5619554 A	☒	Distributed voice system and method	379/88.1
85	US 5617905 A	☒	Circular-weaving machine with vertically moving heddles	139/459
86	US 5613114 A	☒	System and method for custom context switching	709/108
87	US 5608720 A	☒	Control system and operations system interface for a network element in an access system	370/249
88	US 5590335 A	☒	Process for analysis of deadlocks in an operating system	709/104
89	US 5530868 A	☒	Notification of event handlers in broadcast or propagation mode by event management services in a computer system	709/318
90	US 5524250 A	☒	Central processing unit for processing a plurality of threads using dedicated general purpose registers and masque register for providing access to the registers	712/228
91	US 5522073 A	☒	Method and apparatus for automating and controlling execution of software tools and tool sets via when/then relationships	709/313
92	US 5499662 A	☒	Method for preventing the formation of fabric blemishes by controlling beat-up in a loom	139/26
93	US 5400468 A	☒	Slat cleaning apparatus	15/394
94	US 5355484 A	☒	Dynamically established event monitors in event management services of a computer system	717/127

	Documen t ID	U	Title	Current OR
95	US 5305454 A	☒	Notification of event handlers in broadcast or propagation mode by event management services in a computer system	709/318
96	US 5285821 A	☒	Arrangement for controlling feed elements on a textile machine	139/452
97	US 5247675 A	☒	Preemptive and non-preemptive scheduling and execution of program threads in a multitasking operating system	709/103
98	US 5246039 A	☒	Textile machine control system with prioritized message transmission of machine functions	139/452
99	US 5237684 A	☒	Customized and versatile event monitor within event management services of a computer system	709/318
100	US 5223072 A	☒	Intelligent servo-controlled fiber placement machine tensioner	242/420.6
101	US 5220777 A	☒	Method and device for pneumatic threading in a double hollow pin spindle of a doubling frame	57/279
102	US 5211347 A	☒	Thread feed device	242/364.7
103	US 5207763 A	☒	Monitoring system for knitting machines	66/163
104	US 5136202 A	☒	Material sensor	310/330
105	US 4817678 A	☒	Broken warp thread locator	139/353
106	US 4815498 A	☒	Process and apparatus for manipulating fallen drop wires of weaving loom warp stop motions and facilitating repair of broken warp threads	139/351
107	US 4799516 A	☒	Weff yarn feed for a weaving loom	139/435.4
108	US 4787325 A	☒	Cloth ply folding and sewing apparatus and method	112/470.36
109	US 4767389 A	☒	Driving belt	474/266
110	US 4763588 A	☒	Apparatus for thread monitoring in a sewing machine	112/273
111	US 4727894 A	☒	Dental prophylaxis device and process	132/322
112	US 4685345 A	☒	Apparatus for converting rotary motion to translatory motion	74/424.92
113	US 4683712 A	☒	Spinning machine	57/81
114	US 4669159 A	☒	Arrangement for the stretching and warping of warp threads	28/185
115	US 4641494 A	☒	Device for feeding-in a thread end into a spinning nip of a friction spinning machine	57/401
116	US 4574575 A	☒	Two-for-one twisting spindle	57/80
117	US 4519202 A	☒	Spinning or twisting machine, especially for glass-fiber threads	57/264
118	US 4494370 A	☒	Stop motion for textile machines	57/81

	Document ID	U	Title	Current OR
1	US 2002004 2807 A1	☐	Low-contention grey object sets for concurrent, marking garbage collection	709/1
2	US 2002004 0470 A1	☒	Method and system of testing and verifying computer code in a multi-threaded environment	717/126
3	US 2002003 2822 A1	☒	Method and system for handling device driver interrupts	710/260
4	US 2002003 2719 A1	☒	Method and system of dynamic memory management	709/107
5	US 2002002 9357 A1	☒	Method and system of memory management using stack walking	714/9
6	US 2002002 6447 A1	☒	System for designing and performing web application	707/103Y
7	US 2002002 2952 A1	☒	DYNAMIC MODELING OF COMPLEX NETWORKS AND PREDICTION OF IMPACTS OF FAULTS THEREIN	703/22
8	US 2002000 4744 A1	☒	Micro-target for broadband content	705/14
9	US 2002000 2488 A1	☒	Locally driven advertising system	705/14
10	US 2001005 6456 A1	☒	PRIORITY BASED SIMULTANEOUS MULTI-THREADING	709/103
11	US 2001005 6405 A1	☒	Behavior tracking and user profiling system	705/52
12	US 2001005 2053 A1	☒	Stream processing unit for a multi-streaming processor	711/138
13	US 2001004 3724 A1	☒	WAIT-BAND ALLEVIATION VIA HOST-PC BUFFERING	382/114
14	US 2001004 2016 A1	☒	Local portal	705/14
15	US 2001003 2160 A1	☒	Financial advisory storage system	705/36
16	US 2001003 2155 A1	☒	Financial status display system	705/35
17	US 2001003 0647 A1	☒	Using messaging to manage scene-based rendering	345/420
18	US 2001002 5299 A1	☒	Rule-mitigated collaboration system and method	709/204
19	US 2001002 2837 A1	☒	Application and communication platform for connectivity based services	379/102.05
20	US 2001001 8693 A1	☒	VIDEO CATALOGER SYSTEM WITH SYNCHRONIZED ENCODERS	707/500
21	US 2001001 0046 A1	☒	Client content management and distribution system	705/52
22	US 2001000 9004 A1	☒	Financial advisory display system	705/36
23	US 2001000 9003 A1	☒	Financial Status Storage System	705/36
24	US 6374399 B1	☒	Apparatus and method for providing list and read list capability for a host computer system	717/128

	Document ID	U	Title	Current OR
25	US 6374286 B1	☒	Real time processor capable of concurrently running multiple independent JAVA machines	709/108
26	US 6370660 B1	☒	Apparatus and method for providing a wait for status change capability for a host computer system	714/38
27	US 6366946 B1	☒	Critical code processing management	709/106
28	US 6360234 B2	☒	Video cataloger system with synchronized encoders	707/500.1
29	US 6353923 B1	☒	Active debugging environment for debugging mixed-language scripting code	717/128
30	US 6349406 B1	☒	Method and system for compensating for instrumentation overhead in trace data by computing average minimum event times	
31	US 6349314 B1	☒	Adaptive scheduler for mark and sweep garbage collection in interactive systems	707/206
32	US 6340977 B1	☒	System and method for dynamic assistance in software applications using behavior and host application models	345/709
33	US 6332217 B1	☒	Software inventory control system	717/178
34	US 6330659 B1	☒	Hardware accelerator for an object-oriented programming language	712/34
35	US 6317872 B1	☒	Real time processor optimized for executing JAVA programs	717/152
36	US 6298334 B1	☒	Object-based numeric-analysis engine	705/36
37	US 6295518 B1	☒	System and method for emulating telecommunications network devices	703/23
38	US 6282701 B1	☒	System and method for monitoring and analyzing the execution of computer programs	717/125
39	US 6282601 B1	☒	Multiprocessor data processing system and method of interrupt handling that facilitate identification of a processor requesting a system management interrupt	710/260
40	US 6279124 B1	☒	Method and system for testing hardware and/or software applications	714/38
41	US 6272537 B1	☒	Method for building element manager for a computer network element using a visual element manager builder process	709/223
42	US 6269043 B1	☒	Power conservation system employing a snooze mode	365/227
43	US 6256775 B1	☒	Facilities for detailed software performance analysis in a multithreaded processor	717/127
44	US 6256659 B1	☒	System and method for performing hybrid preemptive and cooperative multi-tasking in a computer system	709/100
45	US 6253338 B1	☒	System for tracing hardware counters utilizing programmed performance monitor to generate trace interrupt after each branch instruction or at the end of each code basic block	714/45
46	US 6237143 B1	☒	Method and system for monitoring and capturing all file usage of a software tool	717/127
47	US 6230313 B1	☒	Parallelism performance analysis based on execution trace information	717/128
48	US 6226787 B1	☒	Visualization method and system for dynamically displaying operations of a program	717/125

	Documen t ID	U	Title	Current OR
49	US 6223207 B1	☒	Input/output completion port queue data structures and methods for using same	709/107
50	US 6213771 B1	☒	Incrementally adjustable endodontic instruments	433/75
51	US 6212544 B1	☒	Altering thread priorities in a multithreaded processor	709/103
52	US 6202199 B1	☒	System and method for remotely analyzing the execution of computer programs	717/125
53	US 6199046 B1	☒	Method system and article of manufacture for performing real time currency conversion	705/1
54	US 6158045 A	☒	Portable debugging services utilizing a client debugger object and a server debugger object with flexible addressing support	717/124
55	US 6151610 A	☒	Document display system using a scripting language having container variables setting document attributes	707/516
56	US 6138171 A	☒	Generic software state machine	709/318
57	US 6131183 A	☒	Computer and method for enabling graphic user interface (GUI) control and command line (TTY) control of a computer program	717/106
58	US 6125398 A	☒	Communications subsystem for computer-based conferencing system using both ISDN B channels for transmission	709/236
59	US 6121981 A	☒	Method and system for generating arbitrary-shaped animation in the user interface of a computer	345/473
60	US 6115040 A	☒	Graphical user interface for Web enabled applications	345/741
61	US 6112508 A	☒	Device for monitoring yarns on ring spinning machines	57/265
62	US 6108728 A	☒	Continuous recording system, method, and recording medium recording continuous recording program and capable of being read by computer	710/74
63	US 6105142 A	☒	Intelligent power management interface for computer system hardware	713/324
64	US 6105051 A	☒	Apparatus and method to guarantee forward progress in execution of threads in a multithreaded processor	709/103
65	US 6100941 A	☒	Apparatus and method for locating a commercial disposed within a video data stream	348/700
66	US 6092478 A	☒	Apparatus and method for monitoring consumption of sewing thread supply	112/278
67	US 6083228 A	☒	Device and method for preparing a space between adjacent vertebrae to receive an insert	606/79
68	US 6081752 A	☒	Computer system having power supply primary sense to facilitate performance of tasks at power off	700/79
69	US 6079025 A	☒	System and method of computer operating mode control for power consumption reduction	713/323
70	US 6076157 A	☒	Method and apparatus to force a thread switch in a multithreaded processor	712/228
71	US 6018759 A	☒	Thread switch tuning tool for optimal performance in a computer processor	709/108
72	US 6018340 A	☒	Robust display management in a multiple monitor environment	345/764

	Document ID	U	Title	Current OR
73	US 6016520 A	☒	Method of viewing at a client viewing station a multiple media title stored at a server and containing a plurality of topics utilizing anticipatory caching	710/33
74	US 6012081 A	☒	Service and event synchronous/asynchronous manager	709/102
75	US 5999986 A	☒	Method and system for providing an event system infrastructure	709/310
76	US 5999179 A	☒	Platform independent computer network management client	345/734
77	US 5995753 A	☒	System and method of constructing dynamic objects for an application program	717/108
78	US 5983190 A	☒	Client server animation system for managing interactive user interface characters	704/276
79	US 5974532 A	☒	System and method for generating responses for inputs using a hybrid state engine table	712/208
80	US 5959866 A	☒	Library apparatus with a plurality of cells for storing cartridges accommodating memory media therein	700/214
81	US 5951649 A	☒	Network interconnecting apparatus having a separate forwarding engine object at each interface	709/238
82	US 5950221 A	☒	Variably-sized kernel memory stacks	711/100
83	US 5937186 A	☒	Asynchronous interrupt safing of prologue portions of computer programs	712/244
84	US 5907704 A	☒	Hierarchical encapsulation of instantiated objects in a multimedia authoring system including internet accessible objects	717/100
85	US 5906323 A	☒	Handle structure for dual-bearing reel	242/283
86	US 5873392 A	☒	Process for monitoring faults in textile webs	139/113
87	US 5870588 A	☒	Design environment and a design method for hardware/software co-design	703/13
88	US 5850518 A	☒	Access-method-independent exchange	709/203
89	US 5815653 A	☒	Debugging system with portable debug environment-independent client and non-portable platform-specific server	714/38
90	US 5793975 A	☒	Ethernet topology change notification and nearest neighbor determination	709/224
91	US 5787245 A	☒	Portable debugging service utilizing a client debugger object and a server debugger object	714/38
92	US 5784615 A	☒	Computer system messaging architecture	709/324
93	US 5768500 A	☒	Interrupt-based hardware support for profiling memory system performance	714/47
94	US 5765001 A	☒	Computer system which is operative to change from a normal operating state to a suspend state when a power supply thereof detects that an external source is no longer providing power to said power supply at a predetermined level	713/340
95	US 5761670 A	☒	System and method for space efficient object locking using global and local locks	707/103R

	Documen t ID	U	Title	Current OR
96	US 5758184 A	☒	System for performing asynchronous file operations requested by runnable threads by processing completion messages with different queue thread and checking for completion by runnable threads	710/6
97	US 5758174 A	☒	Computer system having a plurality of stored system capability states from which to resume	713/323
98	US 5754855 A	☒	System and method for managing control flow of computer programs executing in a computer system	709/106
99	US 5752044 A	☒	Computer system having multi-level suspend timers to suspend from operation in attended and unattended modes	713/323
100	US 5748972 A	☒	Computer system which is operative to change from a normal operating state to a suspend state when a power supply thereof detects that an external source is no longer providing power to said power supply at a predetermined level	713/323
101	US 5740384 A	☒	Interactive multimedia system using active backplane having programmable interface to reconfigure the media stream produced by each component	710/305
102	US 5724564 A	☒	Computer program product and program storage device for representing and signaling run-time program conditions	712/234
103	US 5715464 A	☒	Computer system having suspend once resume many sessions	713/323
104	US 5701470 A	☒	System and method for space efficient object locking using a data subarray and pointers	707/103R
105	US 5689715 A	☒	Low power ring detect for computer system wake-up	713/310
106	US 5680619 A	☒	Hierarchical encapsulation of instantiated objects in a multimedia authoring system	717/108
107	US 5630142 A	☒	Multifunction power switch and feedback led for suspend systems	713/323
108	US 5630137 A	☒	Condition handling in a multi-language computer program	709/108
109	US 5611043 A	☒	Debugger system and method for controlling child processes	714/38
110	US 5603038 A	☒	Automatic restoration of user options after power loss	713/310
111	US 5596579 A	☒	High performance machine for switched communications in a heterogeneous data processing network gateway	709/328
112	US 5594904 A	☒	Tracing with keys and locks	717/124
113	US 5581692 A	☒	Automatic clearing of power supply fault condition in suspend system	714/12
114	US 5574939 A	☒	Multiprocessor coupling system with integrated compile and run time scheduling for parallelism	712/24
115	US 5560023 A	☒	Automatic backup system for advanced power management	713/323
116	US 5551043 A	☒	Standby checkpoint to prevent data loss	713/323
117	US 5546593 A	☒	Multistream instruction processor able to reduce interlocks by having a wait state for an instruction stream	712/228
118	US 5546301 A	☒	Advanced equipment control system	700/23

	Documen t ID	U	Title	Current OR
119	US 5542070 A	☒	Method for rapid development of software systems	703/20
120	US 5530879 A	☒	Computer system having power management processor for switching power supply from one state to another responsive to a closure of a switch, a detected ring or an expiration of a timer	713/323
121	US 5526669 A	☒	Computer controlled pull gun system	72/391.2
122	US 5519863 A	☒	Notification forwarding discriminator	709/318
123	US 5515296 A	☒	Scan path for encoding and decoding two-dimensional signals	709/204
124	US 5511204 A	☒	Performing system tasks at power-off using system management interrupt	713/330
125	US 5511003 A	☒	Encoding and decoding video signals using spatial filtering	709/204
126	US 5509123 A	☒	Distributed autonomous object architectures for network layer routing	709/243
127	US 5508942 A	☒	Intra/inter decision rules for encoding and decoding video signals	709/204
128	US 5506954 A	☒	PC-based conferencing system	345/501
129	US 5490247 A	☒	Video subsystem for computer-based conferencing system	345/501
130	US 5488570 A	☒	Encoding and decoding video signals using adaptive filter switching criteria	345/501
131	US 5471526 A	☒	Tracing with keys and locks on a telecommunication network	379/268
132	US 5463625 A	☒	High performance machine for switched communications in a heterogeneous data processing network gateway	370/401
133	US 5455949 A	☒	Method for representing and signaling run-time program conditions	712/234
134	US 5434913 A	☒	Audio subsystem for computer-based conferencing system	379/202.01
135	US 5359949 A	☒	Sewing system having function to store operation-state data upon detection of abnormality	112/470.02
136	US 5331736 A	☒	Method of loading a liveload assembly for rotary or reciprocating shaft packing	29/890.124
137	US 5323324 A	☒	Yarn tension control system	700/130
138	US 5301270 A	☒	Computer-assisted software engineering system for cooperative processing environments	345/866
139	US 5297274 A	☒	Performance analysis of program in multithread OS by creating concurrently running thread generating breakpoint interrupts to active tracing monitor	703/22
140	US 5223190 A	☒	Apparatus and method to make composite insulators for electric overhead lines	264/40.1
141	US 5156348 A	☒	Thread monitoring mechanism	242/485.2
142	US RE34063 E	☒	Monitoring torque in tubular goods	73/862.23

	Documen t ID	U	Title	Current OR
143	US 5097595 A	☒	Method of liveloading a rotary or reciprocating shaft packing	29/890.124
144	US 5051947 A	☒	High-speed single-pass textual search processor for locating exact and inexact matches of a search pattern in a textual stream	707/3
145	US 5024453 A	☒	Liveload assembly for rotary or reciprocating shaft packing	277/523
146	US 4976390 A	☒	Pocket fiber optic cleaver	225/96
147	US 4974640 A	☒	Method for removing a loose incorrect piece of weft thread from the shed on weaving machines	139/116.2
148	US 4965567 A	☒	Method of, and apparatus for, transmitting data in a manufacturing machine comprising a plurality of production stations	370/458
149	US 4958802 A	☒	Stop valve	251/310
150	US 4943927 A	☒	Controlling and supervising system for loom	700/140
151	US 4911289 A	☒	Carrier for beverage bottles	206/150
152	US 4898214 A	☒	Method and apparatus for removing an improperly inserted weft thread from an air-jet loom	139/116.2
153	US 4854324 A	☒	Processor-controlled angiographic injector device	600/432
154	US 4748617 A	☒	Very high-speed digital data bus	359/121
155	US 4738145 A	☒	Monitoring torque in tubular goods	73/862.23
156	US 4726422 A	☒	Annular safety assembly for an oil well, especially a double production zone well	166/133
157	US 4685125 A	☒	Computer system with tasking	700/1
158	US 4656822 A	☒	Spinning machine with sliver-feed interrupter	57/81
159	US 4473096 A	☒	Weft end reception system	139/188R
160	US 4458729 A	☒	Strand delivery and storage system	139/435.1
161	US 4455549 A	☒	Indication device	340/517
162	US 4362009 A	☒	Yarn actuated stop motion device	57/86
163	US 4347872 A	☒	Air weft insertion system	139/435.1
164	US 4228828 A	☒	Electronic thread monitoring device for gripper shuttle weaving machines	139/370.2
165	US 4222224 A	☒	Device for temporarily stopping the operation of spinning stations	57/263
166	US 4178590 A	☒	Electronic weft thread monitor for shuttleless weaving machines	340/677

	Document ID	U	Title	Current OR
1	US 2002003 8416 A1	☐	System and method for reading and writing a thread state in a multithreaded central processing unit	712/228
2	US 2002002 1707 A1	☒	Method and apparatus for non-speculative pre-fetch operation in data packet processing	370/412
3	US 2002001 6869 A1	☒	Data path engine	709/324
4	US 2002000 2667 A1	☒	System and method for instruction level multithreading in an embedded processor using zero-time context switching	712/228
5	US 2001004 9726 A1	☒	Data path engine	709/218
6	US 2001004 8045 A1	☒	Process for the operation of a bobbin creel and bobbin creel for a winding system	242/419.1
7	US 2001004 5486 A1	☒	Process for the operation of a bobbin creel and bobbin creel for a winding system	242/419.1
8	US 2001004 2184 A1	☒	CONVERTING NON-CONTIGUOUS MEMORY INTO CONTIGUOUS MEMORY FOR A GRAPHICS PROCESSOR	711/206
9	US 2001001 7620 A1	☒	Information processing apparatus, network system, device-map display method, and storage medium	345/204
10	US 2001001 3511 A1	☒	Method for correcting teaching points for welding robot and welding robot system employing the same	219/124.34
11	US 2001000 5892 A1	☒	Real-time power conservation for electronic device having a processor	713/300
12	US 2001000 1880 A1	☒	Real-time power conservation and thermal management for electronic devices	713/322
13	US 6370633 B2	☒	Converting non-contiguous memory into contiguous memory for a graphics processor	711/206
14	US 6370487 B1	☒	Remote semiconductor microscopy	702/188
15	US 6353845 B1	☒	Computer system, program product and method for tracking asynchronous I/O with timeout support	709/102
16	US 6345242 B1	☒	Synchronization mechanism for distributed hardware simulation	703/22
17	US 6324623 B1	☒	Computing system for implementing a shared cache	711/148
18	US 6314563 B1	☒	Expedited object locking and unlocking	717/108
19	US 6298386 B1	☒	Network file server having a message collector queue for connection and connectionless oriented protocols	709/234
20	US 6295613 B1	☒	Debug watch mechanism and method for debugging a computer program	714/43
21	US 6295557 B1	☒	Apparatus for simulating internet traffic	709/224
22	US 6294993 B1	☒	System for providing personal security via event detection	340/539
23	US 6286444 B1	☒	Automatic bobbin changer and method	112/117
24	US 6222529 B1	☒	Method and apparatus for providing multiple sessions on a single user operating system	345/745

	Documen t ID	U	Title	Current OR
25	US 6205414 B1	☒	Methodology for emulation of multi-threaded processes in a single-threaded operating system	703/26
26	US 6189023 B1	☒	Simulating shared code thread modules with shared code fibers	709/100
27	US 6173442 B1	☒	Busy-wait-free synchronization	717/141
28	US 6173409 B1	☒	Real-time power conservation for electronic device having a processor	713/322
29	US 6170018 B1	☒	Remote procedure calling using an existing descriptor mechanism	709/330
30	US 6167424 A	☒	Method and apparatus for concurrent thread synchronization	709/100
31	US 6158012 A	☒	Real-time power conservation and thermal management for computers	713/322
32	US 6154765 A	☒	Distributed digital rule processor for single system image on a clustered network and method	709/201
33	US 6141794 A	☒	System and method for synchronizing access to shared variables in a virtual machine in a digital computer system	717/118
34	US 6123041 A	☒	Automated sewing system and method for sewing a knit glove cuff edge	112/470.05
35	US 6119613 A	☒	Method and apparatus for preventing a seam from raveling in double chain stitch sewing machine	112/475.17
36	US 6119145 A	☒	Multithreaded client application storing a separate context for each transaction thus allowing threads to resume transactions started by other client threads	709/203
37	US 6117181 A	☒	Synchronization mechanism for distributed hardware simulation	703/22
38	US 6108744 A	☒	Software interrupt mechanism	710/266
39	US 6078994 A	☒	System for maintaining a shared cache in a multi-threaded computer environment	711/133
40	US 6070254 A	☒	Advanced method for checking the integrity of node-based file systems	714/43
41	US 6061710 A	☒	Multithreaded processor incorporating a thread latch register for interrupt service new pending threads	709/107
42	US 6047323 A	☒	Creation and migration of distributed streams in clusters of networked computers	709/227
43	US 6042614 A	☒	System and method for a distributed debugger for debugging distributed application programs	717/116
44	US 6021425 A	☒	System and method for optimizing dispatch latency of tasks in a data processing system	709/103
45	US 6009478 A	☒	File array communications interface for communicating between a host computer and an adapter	710/5
46	US 6009269 A	☒	Detecting concurrency errors in multi-threaded programs	717/130
47	US 6006336 A	☒	Real-time power conservation for computers	713/322
48	US 5996084 A	☒	Method and apparatus for real-time CPU thermal management and power conservation by adjusting CPU clock frequency in accordance with CPU activity	713/323

	Documen t ID	U	Title	Current OR
49	US 5983818 A	☒	Sewing machine with thread tensioning and take up levers	112/241
50	US 5974538 A	☒	Method and apparatus for annotating operands in a computer system with source instruction identifiers	712/218
51	US 5948062 A	☒	Network file server using a cached disk array storing a network file directory including file locking information and data mover computers each having file system software for shared read-write file access	709/219
52	US 5944789 A	☒	Network file server maintaining local caches of file directory information in data mover computers	709/214
53	US 5930516 A	☒	Real time power conservation for computers	713/322
54	US 5907702 A	☒	Method and apparatus for decreasing thread switch latency in a multithread processor	709/108
55	US 5893159 A	☒	Methods and apparatus for managing scratchpad memory in a multiprocessor data processing system	711/150
56	US 5893140 A	☒	File server having a file system cache and protocol for truly safe asynchronous writes	711/118
57	US 5872963 A	☒	Resumption of preempted non-privileged threads with no kernel intervention	712/233
58	US 5819093 A	☒	System and method for a distributed debugger for debugging distributed application programs	717/126
59	US 5717926 A	☒	Efficient forking of a process	709/104
60	US 5717537 A	☒	Magnetic tape apparatus	360/74.4
61	US 5706676 A	☒	Pneumatic thread feeder in knitting machines or the like	66/125R
62	US 5694604 A	☒	Preemptive multithreading computer system with clock activated interrupt	709/107
63	US 5694603 A	☒	Computer memory product with preemptive multithreading software	709/107
64	US 5692193 A	☒	Software architecture for control of highly parallel computer systems	709/106
65	US 5676077 A	☒	Multi-needle chain stitch sewing machine with thread severing system	112/475.01
66	US 5642759 A	☒	Method for avoiding weaving a faulty weft thread during repair of weft thread fault	139/116.2
67	US 5622127 A	☒	Automatic dual bobbin mechanism	112/279
68	US 5550962 A	☒	System for selectively performing parallel or sequential drawing processing	709/232
69	US 5549140 A	☒	Back rest arrangement for controlling warp thread tension	139/114
70	US 5535361 A	☒	Cache block replacement scheme based on directory control bit set/reset and hit/miss basis in a multiheading multiprocessor environment	711/145
71	US 5515538 A	☒	Apparatus and method for interrupt handling in a multi-threaded operating system kernel	710/260

	Document ID	U	Title	Current OR
72	US 5490272 A	☒	Method and apparatus for creating multithreaded time slices in a multitasking operating system	709/108
73	US 5485626 A	☒	Architectural enhancements for parallel computer systems utilizing encapsulation of queuing allowing small grain processing	709/315
74	US 5433160 A	☒	Sewing machine	112/300
75	US 5431119 A	☒	Thread end holding device for a sewing machine	112/253
76	US 5429869 A	☒	Composition of expanded polytetrafluoroethylene and similar polymers and method for producing same	428/364
77	US 5410700 A	☒	Computer system which supports asynchronous commitment of data	709/100
78	US 5372079 A	☒	Thread trimming device for a sewing machine	112/291
79	US 5303746 A	☒	Method for controlling weft thread transfer from empty to full bobbin during weft insertion	139/435.2
80	US 5303538 A	☒	Device and procedure for preparing the thread end to start or resume open-end spinning	57/263
81	US 5275154 A	☒	Activated charcoal filter layer for gas masks	128/205.27
82	US 5246178 A	☒	Device for anchoring thread to the surface of a winding bobbin	242/476.6
83	US 5218704 A	☒	Real-time power conservation for portable computers	713/322
84	US 5203270 A	☒	Sewing machine with latch back device	112/475.26
85	US 5168554 A	☒	Converting trace data from processors executing in parallel into graphical form	707/509
86	US 5111852 A	☒	Weft inserting nozzle with separate threading duct	139/435.4
87	US 5109582 A	☒	Thread tensioning apparatus	28/208
88	US 5107689 A	☒	Device for switching on and off at least one functional unit of a knitting machine	66/218
89	US 5078068 A	☒	Process and apparatus for preparing a seam	112/475.01
90	US 5052929 A	☒	Method for constructing a custom abutment for use in association with dental implants	433/173
91	US 5029374 A	☒	Loom reed drawing-in machine	28/204
92	US 4984436 A	☒	Thread exchange device, particularly for knitting machines	66/144
93	US 4964442 A	☒	Reserve weft thread supply mechanism with device for changing thread type	139/452
94	US 4936223 A	☒	Segmented rail assembly for closed loop work station conveyor system	104/102
95	US 4928612 A	☒	Automatic sewing machine exclusively used for sewing zipper on workpiece	112/257

	L #	Hits	Search Text	DBs
1	L1	7937	thread near10 (halt$3 stop$4 suspend$3 resum$3)	USPAT; US-PGPUB
2	L2	173	1 near30 event	USPAT; US-PGPUB
3	L3	32246	event near5 (handl$3 manag$3 monitor$3 detect$3)	USPAT; US-PGPUB
4	L4	248	1 and 3	USPAT; US-PGPUB
5	L5	174	4 not 2	USPAT; US-PGPUB
6	L6	220	thread near10 (activat$3 reactivat$3 resum$3) near20 (event occurrence complet$3 finish$3 occur interrupt)	USPAT; US-PGPUB
7	L7	148	6 not (2 4)	USPAT; US-PGPUB
8	L8	5593	thread near10 (halt$3 stop$4 suspend$3 resum$3)	EPO; JPO; DERWENT; IBM_TDB
9	L10	8311	event near5 (handl$3 manag$3 monitor$3 detect$3)	EPO; JPO; DERWENT; IBM_TDB
10	L9	50	8 near30 event	EPO; JPO; DERWENT; IBM_TDB
11	L11	5	8 and 10 not 9	EPO; JPO; DERWENT; IBM_TDB
12	L12	32	thread near10 (activat$3 reactivat$3 resum$3) near20 (event occurrence complet$3 finish$3 occur interrupt)	EPO; JPO; DERWENT; IBM_TDB

	Documen t ID	U	Title	Current OR
1	JP 0722569 3 A	☐	METHOD FOR PROCESSING THREAD EVENT FOR DIFFERENT ADDRESS SPACES	
2	JP 0721978 9 A	☒	METHOD FOR PROCESSING EXTERNAL EVENT IN PLURAL THREAD SYSTEMS	
3	WO 9918730 A2	☒	MULTITHREAD DATA PROCESSOR	
4	EP 909094 A1	☒	Multithread data processor	
5	EP 834808 A1	☒	Method and apparatus for user-level support for multiple event synchronization	
6	US 5632032 A	☒	Cross address space thread control in a multithreaded environment	
7	US 5207763 A	☒	Monitoring system for knitting machines	
8	DE 4109398 C1	☒	Stop installation for drawing system of spinning machine - has electromagnet integrated into magnetic valve of pneumatic component	
9	DE 3909746 A1	☒	Method for operating a ring-spinning machine and service robot for carrying out the method	
10	DE 3717749 A1	☒	Method for the active prevention of thread breaks on spinning-machine, twisting-machine and winding-machine drives and for their fully automatic setting to maximum production/regulating out speeds	
11	WO 8808048 A1	☒	MONITORING SYSTEM FOR KNITTING MACHINES	
12	DE 3619012 A1	☒	Thread-tensioning device for textile machines	
13	DE 3609468 A1	☒	Thread-tensioning device	
14	US 4519202 A	☒	Spinning or twisting machine, especially for glass-fiber threads	
15	DE 3431374 A1	☒	Thread stop motion for sewing, embroidering and tufting machines or the like	
16	US 4352471 A	☒	Thread tensioning and brake device	
17	GB 2031957 A	☒	Driving looms	
18	US 3995418 A	☒	Double twist spindle yarn stop device	
19	US 3815349 A	☒	CLUTCH FOR A STRETCHING MECHANISM IS A SPINNING OR TWISTING MACHINE	
20	US 3785308 A	☒	APPARATUS FOR MONITORING THREAD TENSION	
21	US 3746054 A	☒	SHUTTLE BOXING AND PROTECTION STOPPING MEANS FOR FLY SHUTTLE LOOMS	
22	NN97041 35	☒	Method for Managing a Parent-Child Relationship between started Tasks in Separate Address Spaces	
23	EP 909094 A	☒	Multi-thread data processor for digital audio-visual data decoder	
24	EP 908411 A	☒	Operation interruption processing system for yarn winding machine	

	Document ID	U	Title	Current OR
25	DE 19624254 A	☒	Bobbin thread break stop-motion for lock-stitch machines - features switch that stops machine in event of missing bobbin thread	
26	DE 19617976 A	☒	Communication system with message-oriented operating system, application software and software process exchange - causes old process to be replaced to perform event transfer, to stop execution at certain point, and to supply incoming messages to new process	
27	DE 4236418 A	☒	Sewing machine - has needlework facility with electronic control having pattern sections assembled from a memory card	
28	DE 4114069 A	☒	Locating and securing loose ends on spinning frame - using fixed suction point on each unit to hold thread end until service robot can form splice	
29	DE 4109398 C	☒	Stop installation for drawing system of spinning machine - has electromagn et integrated into magnetic valve of pneumatic component	
30	SU 1549909 A	☒	Hydraulic jack - has mechanism and hydraulic drive to ensure jack is prevented from retracting in event of hydraulic failure	
31	DE 3828323 A	☒	Yarn break repair - holds unbroken thread component in reserve position while suction gripper locates broken thread end	
32	DE 3819059 A	☒	Mfg. seam on sewing machine - by moving machine workpiece backwards when thread breaks	
33	EP 385988 B	☒	Hosiery knitting machine monitoring appts. - has respective yarn sensors signalling electronic controller storing recorded reference programme data	
34	DD 252625 A	☒	Sewing machine lower thread monitor - has sensor and light box to lift upper thread and stop machine on breakage	
35	DD 228843 A	☒	Sewing machine thread monitor - has light box with structured light beam passage for contactless monitoring	
36	DE 3504077 C	☒	Synthetic thread band drawing installation - with heated rolls and devices to prevent heat flow between thread band and roll	
37	DE 3336450 A	☒	Thread break stop-motion to control thread-line - for use in texturising machines, switches off automatically after detection of disturbance	
38	SU 1142542 A	☒	Loom weft thread monitor - where broken thread operates electronic switch trigger delay circuit with integrated voltage operating threshold if motor still runs	
39	DE 3406761 A	☒	Embroidery needle thread monitor - uses insulated sleeve on pole rod for positive action	
40	DD 212486 A	☒	Electronic control unit for thread in automatic sewing machines - features at least one thread break stop-motion and electronic control part; permits thread control independently of thread speed and tension	
41	SU 1102758 A	☒	Controller for automatic reeling machine - detector energises electromagne ts which control rotation of winding head	
42	DE 3238168 A	☒	Sewing machine control - allows fabric to be repositioned on a thread break to maintain sewing pattern	
43	DE 3114364 A	☒	Thread brake stop action - has sprung lever to pivot against rotating section on thread brake	
44	DE 3108353 A	☒	Automatic sewing machine pattern control - has data store with pattern blocks to build up pattern and allow for thread breakage	
45	NL 8101818 A	☒	Thread knotter of sausage end tying-off unit - rotates thread spool in spool guide housing until knot tensioned, then withdraws spool drive	
46	DE 2543807 B	☒	Spring loaded circular stop motion for bobbin lace machine - additional yarn separators rotate in sequence on shaft	
47	US 3961502 A	☒	Safety ring for knitting machine stop mechanism - an electrically conductive bar closes a circuit to stop machine	

	Document ID	U	Title	Current OR
48	US 3931775 A	☒	Automatic button feeder - in which pneumatic injection arm orientates buttons and feeds them to sewing station	
49	DE 2361731 A	☒	Electro-mechanical tripping device for yarn processing - permitting adjustment and resetting of tension on thread support levers at any value between limits	
50	DE 2128476 B	☒	Flat knitting - with positive feed, thread storage and broken end detector	

	Documen t ID	U	Title	Current OR
1	JP 1028320 6 A	☐	METHOD AND SYSTEM FOR ASYNCHRONOUS INTERRUPT PROCESSING	
2	NN93129 5	☒	Error Event Monitoring and Exception Promotion in a Multiprocessing Operating System	
3	DE 3818663 A	☒	Thread break stop-motion for stitch forming machines - with set of sensors between thread reserve and associated tensioner and second set of sensors	
4	CH 638254 A	☒	Quilting machine thread control - has controlled thread drive with direct link between monitor and programmer	
5	DE 3139667 A	☒	Sliver drawing spinning monitor - has light sources cells to detect thread break and trip sliver clamp	

	Documen t ID	U	Title	Current OR
1	JP 1117535 9 A	☐	EVENT MONITORING PART INTEGRATION METHOD BETWEEN DIFFERENT KINDS OF PLATFORMS	
2	JP 0928566 6 A	☒	THREAD CONTROL DEVICE OF MULTI-THREAD CHAIN STITCH SEWING MACHINE	
3	JP 0722569 3 A	☒	METHOD FOR PROCESSING THREAD EVENT FOR DIFFERENT ADDRESS SPACES	
4	JP 0623628 7 A	☒	INFORMATION PROCESSOR	
5	JP 6112757 6 A	☒	THREAD CUT PROCESSING UNIT	
6	EP 834808 A1	☒	Method and apparatus for user-level support for multiple event synchronization	
7	US 5694603 A	☒	Computer memory product with preemptive multithreading software	
8	US 5632032 A	☒	Cross address space thread control in a multithreaded environment	
9	US 5433160 A	☒	Sewing machine	
10	DE 4304496 A1	☒	Auxiliary conveying apparatus and thread-processing system	
11	US 5078068 A	☒	PROCESS AND APPARATUS FOR PREPARING A SEAM	
12	US 4693070 A	☒	Thread joining apparatus for an open end spinning machine	
13	DE 3431374 A1	☒	Thread stop motion for sewing, embroidering and tufting machines or the like	
14	KR 2001094 368 A	☒	Method for managing status of inter-office trunk line in digital mobile switching system	
15	US 6222529 B	☒	Multiple-session providing method for single user operating system, involves activating virtual device driver when thread switch occurs, to load appropriate state variables to execute remote and local applications	
16	DE 1964336 8 A	☒	Activation of checking system for coin operated or checking machines - has lever displaced by coin to operate reed relay switch to activate system	
17	DE 1962425 4 A	☒	Bobbin thread break stop-motion for lock-stitch machines - features switch that stops machine in event of missing bobbin thread	
18	US 5515538 A	☒	Interrupt processing method in operating system kernel with multi=threadin g and real=time processing - by completing interrupt service without using non-thread routine, transferring execution control from interrupted thread to machine instruction	
19	DE 4325227 A	☒	Open-end spinner maintenance which reduces wear on rotor - carries out at least rotor cleaning before mobile unit leaves station	
20	EP 443220 A	☒	Preparing thread end to start or resume open=end spinning - involves placing thread tail end in vigorous air flow channel which detaches short fibres, tapers end and untwisting fibres	
21	SU 1614904 A	☒	Appts. for removal of weld fin from annular weld in pipes - has cantilever with screw having right and left thread with corresponding nuts each fixed by lever mechanism to holder of cutter	
22	DE 3819059 A	☒	Mfg. seam on sewing machine - by moving machine workpiece backwards when thread breaks	
23	US 4825789 A	☒	Sewing machine bottom thread exhaustion sensor - includes intermittently energised light emitter and cooperating receiver controlling alarm	

	Document ID	U	Title	Current OR
24	EP 291484 A	☒	Coupling spooled yarns for continuous delivery to loom - by automatically detecting and intertwining successive yarn ends	
25	US 4545712 A	☒	Locking threaded fastener - has resin and activator layers in thread grooves sepd. until use	
26	GB 2111874 A	☒	Tube rethreading appts. for NC machines - has program to control positioning of turret w.r.t. sliding locator, adaptor and threaded blank	
27	DE 3238168 A	☒	Sewing machine control - allows fabric to be repositioned on a thread break to maintain sewing pattern	
28	SU 512015 A	☒	Semiautomatic thread cutting lathe - has facility for simultaneous machining and thread cutting at both ends of the blank	
29	US 3925858 A	☒	Adhesively securable slide fastener - has laminated strip-like layers of heat bondable adhesive along outer edge	
30	SU 443735 A	☒	Hole machining from both sides - using tool lead in section for component basing in pre-prepared holes	
31	DE 2301381 A	☒	Electromagnet fibre feed control - for spindleless spinning arrangement	
32	DE 2039473 A	☒	Open-end spinning - thread drawing - off and return mechanism	